

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference LW8044PC	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/KR 03/01510	International filing date (day/month/year) 29 July 2003 (29.07.2003)	(Earliest) Priority Date (day/month/year) 3 August 2002 (03.08.2002)
Applicant SAMSUNG ELECTRONICS CO LTD		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 5 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.: 1

☒ as suggested by the applicant.

☐ None of the figures.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

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Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The backlight assembly (100) includes a light source and a light guide plate (40). The light source includes a plurality of light generating parts (10, 20) that generate a first light. The light guide plate (40) includes side surfaces (41, 43), a light exiting surface (47) and a light reflecting surface (45). The light exiting surface (47) has a plurality of luminance-compensating patterns (47a). The light reflecting surface (45) faces the light exiting surface (47). The first light enters into the light guide plate (40) via the light incident surface (41, 43) to form a second light. The second light is reflected on the light reflecting surface (45) toward the light exiting surface (47) to form a third light. The third light exits from the light guide plate (40) via the light exiting surface (47). The luminance-compensating patterns (47a) uniformize a luminance of the third light. A thickness of the light guide plate (40) decreases in a direction from the light incident surface (41, 43) to a center of the light guide plate (40).

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CLASSIFICATION OF SUBJECT MATTER

IPC⁷: G02F 1/13357, G02B 6/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: G02F, G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPODOC, WPI, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	US 5123077 A (ENDO et al.) 16 June 1992 (16.06.92) <i>fig. 1,2,4-6; column 3, line 39 - column 7, line 59.</i>	1,2,5,8,12 7,9,13 3,4
X Y A	EP 0663600 A1 (NITTO J. K. KABUSHIKI) 19 July 1995 (19.07.95) <i>fig. 1-3,7,8; column 4, line 46 - column 9, line 15.</i>	1-3 9 5-8,12,13
Y A	EP 0607453 A1 (SEIKO EPSON COR.) 27 July 1994 (27.07.94) <i>abstract; fig. 19.</i>	7 1,12

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

„A“ document defining the general state of the art which is not considered to be of particular relevance

„E“ earlier application or patent but published on or after the international filing date

„L“ document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

„O“ document referring to an oral disclosure, use, exhibition or other means

„P“ document published prior to the international filing date but later than the priority date claimed

„T“ later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

„X“ document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

„Y“ document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

„&“ document member of the same patent family

Date of the actual completion of the international search

4 December 2003 (04.12.2003)

Date of mailing of the international search report

21 January 2004 (21.01.2004)

Name and mailing address of the ISA/AT

Austrian Patent Office

Dresdner Straße 87, A-1200 Vienna

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5450292 A (YOKOYAMA et al.) 12 September 1995 (12.09.95) <i>fig. 9,10A-C,11A,B,12A-C,14,16,18,19; column 3, line 62 - column 4, line 10; column 4, line 67 - column 6, line 46.</i>	1-5,7,8,10,11,13
A		
Y	EP 0500960 A1 (MITSUBISHI RAYON CO.) 2 September 1992 (02.09.92) <i>page 4, line 56 - page 6, line 5; page 6, lines 48-50; fig. 3-5,7,9,11.</i>	12 1-5,7,8,10,11
A		12

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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Patent document cited in search report			Publication date		Patent family member(s)		Publication date
EP	A	0960			none		
EP	A	7453			US	A	4218583
					EP	A	0007453
					CA	A	1118363
					JP	A	55021692
							1980-08-19
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EP	A	663600			US	A	5993020
					WO	A	9503559
					EP	A	0663600
					JP	A	7036037
							1999-11-30
							1995-02-02
							1995-07-19
							1995-02-07
US	A	5123077	1992-06-16		DE	A	4008953
					JP	A	2245788
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US	A	5450292	1995-09-12		JP	U	6025804U
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							1994-04-08
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							1993-10-15
							1993-10-15

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